

From: [Michael Sivak](#)
To: [Rebecca Ofrane](#)
Subject: Re: Fw: Cabo Rojo - Second Round Analytical Report
Date: 03/29/2012 03:51 PM

Excellent. Thanks for looking into this.

I'm not aware of many (any?) chemicals with UF/MFs less than 3. Arsenic, maybe. Barium? Manganese is 3, I think. But it's always good to check quickly to make sure screening against an HQ of 3 remains protective.

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-----Rebecca Ofrane/R2/USEPA/US wrote: -----

To: Michael Sivak/R2/USEPA/US@EPA
From: Rebecca Ofrane/R2/USEPA/US
Date: 03/29/2012 02:44PM
Subject: Re: Fw: Cabo Rojo - Second Round Analytical Report

Yes that makes sense. I'm not sure if we've defined the main COPCs yet, so I checked IRIS for the contaminants that were analyzed in all samples (not the full list only analyzed for in the headstart facility). The UFs for the inhalation RfCs are as follows:

1,1-DCE UF=30
1,1-DCA n/a
1,2-DCE UF=3000
1,2-DCA n/a
TCE UF=10/100
PCE UF=1000

So it looks like using an HQ=3 is acceptable. Looks ok to you?

Becky Ofrane
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ofrane.rebecca@epa.gov

 Michael Sivak---03/29/2012 12:14:54 PM---Becky,

From: Michael Sivak/R2/USEPA/US
To: Rebecca Ofrane/R2/USEPA/US@EPA
Date: 03/29/2012 12:14 PM
Subject: Re: Fw: Cabo Rojo - Second Round Analytical Report

Becky,

Can you please check the IRIS files for the chemicals of potential concern to make sure that the uncertainty factors/modifying factors are not less than 3? If so, then using an HQ of 3 might not be protective. Does that make sense?

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-----Rebecca Ofrane/R2/USEPA/US wrote: -----

To: Arlene Anderson/R2/USEPA/US@EPA
From: Rebecca Ofrane/R2/USEPA/US
Date: 03/29/2012 09:44AM
Cc: Denise Zeno/R2/USEPA/US@EPA, Angela Carpenter/R2/USEPA/US@EPA, Michael Sivak/R2/USEPA/US@EPA
Subject: Re: Fw: Cabo Rojo - Second Round Analytical Report

There were a few data points that changed, either from a very low detection to ND or the reverse. Nothing of substance that changes the previous analysis of the results. I've also attached a Table of screening levels that can be used to help analyze the results. A few notes on this table:

- These RALs are based on a **10⁻⁴** screening level for contaminants with cancer endpoints, and an **HI=3** for noncancer.
- In the Table, note that a few chemicals (1,2-DCA, TCE, PCE and 1,2-Dichloropropane) are highlighted because they have both cancer and noncancer screening levels, so I've listed both.
- I've hidden the rows of contaminants that were not detected in any samples.
- Both residential and commercial/industrial numbers are provided in case we want to differentiate.

(See attached file: Cabo RAL Table.xlsx)

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▼ Arlene Anderson---03/22/2012 09:36:36 AM---Becky, It occurred to me that you may not have received the finalized data. Denise and I just finis

From: Arlene Anderson/R2/USEPA/US
To: Rebecca Ofrane/R2/USEPA/US
Cc: Denise Zeno/R2/USEPA/US
Date: 03/22/2012 09:36 AM

Subject: Fw: Cabo Rojo - Second Round Analytical Report

Becky,

It occurred to me that you may not have received the finalized data. Denise and I just finished phase 2 sampling this week. I am attempting to be proactive since Denise and I had internet problems in Cabo Rojo this week, I thought I'd send this from San Juan while Denise is still in Cabo Rojo getting more history information on the train system that appears to have operated on our Site.

Please verify no surprises occurred from prelim to final data and add RAL column for us to review and discuss.

Thanks,

Arlene
Arlene anderson

From: "Killeen, Deborah A" [deborah.a.killeen@lmco.com]
Sent: 03/19/2012 08:29 PM GMT
To: Jeff Catanzarita; Arlene Anderson
Subject: Cabo Rojo - Second Round Analytical Report

As per your request

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(See attached file: SERAS-130-DAR-031912.pdf)

[attachment "SERAS-130-DAR-031912.pdf" removed by Michael Sivak/R2/USEPA/US]
[attachment "Cabo RAL Table.xlsx" removed by Michael Sivak/R2/USEPA/US]